

Claims

[c1] What is claimed is:

1. A disc braking device utilized in an optical disc drive, the disc braking device comprising:

a structure portion;

a braking rod installed on the structure portion; and

a braking component installed on the braking rod and utilized for making a disc stop rotating.

2. The disc braking device of claim 1, further comprising: an elastic component installed on the structure portion, wherein one end of the elastic component hooks the braking rod.

[c2] 3. The disc braking device of claim 2, wherein the elastic component is a spring made of metal or plastic materials.

[c3] 4. The disc braking device of claim 2, wherein the braking rod comprises a positioning hook and one end of the elastic component hooks the positioning hook of the braking rod.

[c4] 5. The disc braking device of claim 2, further comprising a raising part installed on a lateral side of a bottom cover

of the optical disc drive.

- [c5] 6. The disc braking device of claim 2, wherein when the disc is being ejected from the optical disc drive, the braking rod drives the braking component to touch the rim of the disc.
- [c6] 7. The disc braking device of claim 2, wherein the structure portion further comprises at least one positioning pin utilized for positioning and installing the braking rod and the elastic component.
- [c7] 8. The disc braking device of claim 1, wherein the braking component is made of sponge.
- [c8] 9. The disc braking device of claim 1 further comprising:
a tappet installed on the structure portion and utilized for driving the braking rod;
an elastic component installed on the structure portion, wherein one end of the elastic component hooks the tappet; and
an elastic unit installed on the structure portion and utilized for driving the braking rod to force the disc to stop rotating.
- [c9] 10. The disc braking device of claim 9, wherein the tappet comprises a sliding slot.

- [c10] 11.The disc braking device of claim 10, wherein the structure portion further comprises a first guiding peg and a second guiding peg located in the sliding slot and utilized for guiding the tappet to slide.
- [c11] 12.The disc braking device of claim 9, further comprising an covering component installed on the structure portion.
- [c12] 13.The disc braking device of claim 12, wherein the structure portion further comprises a positioning hook utilized for positioning and hooking the covering component.
- [c13] 14.The disc braking device of claim 12, wherein the structure portion further comprises a positioning slot utilized for positioning and installing the covering component.
- [c14] 15.The disc braking device of claim 9, wherein the elastic unit is a leaf spring.
- [c15] 16.The disc braking device of claim 9, wherein the elastic component is a spring made of metal or plastic materials.
- [c16] 17.The disc braking device of claim 9, wherein the tappet comprises a positioning hook and the elastic compo-

nent hooks the positioning hook of the tappet.

[c17] 18.The disc braking device of claim 11, wherein the structure portion further comprises a plurality of positioning pins utilized for positioning and installing the braking rod, the elastic component and the elastic unit.

[c18] 19.The disc braking device of claim 9, wherein when the disc is being ejected from the optical disc drive, the elastic unit drives the braking rod to rotate, in order to make the braking component touch the rim of the disc.

[c19] 20.A disc accessing device, comprising:
a disc tray comprising a turn table utilized for positioning and rotating a disc for accessing the data from the disc;
a bottom cover utilized for bearing the disc tray; and
a disc braking device installed on the disc tray and utilized for making the disc stop rotating.

[c20] 21.The disc accessing device of claim 20, wherein the disc braking device comprises:
a structure portion;
a braking rod installed on the structure portion; and
a braking component installed on the braking rod and utilized for making the disc stop rotating.

[c21] 22.The disc accessing device of claim 21, wherein the

disc braking device further comprises an elastic component installed on the structure portion, wherein one end of the elastic component hooks the braking rod.

- [c22] 23.The disc braking device of claim 22, wherein the elastic component is a spring made of metal or plastic materials.
- [c23] 24.The disc accessing device of claim 22, wherein the braking rod comprises a positioning hook and one end of the elastic component hooks the positioning hook of the braking rod.
- [c24] 25.The disc accessing device of claim 22, wherein the disc braking device further comprises a raising part installed on a lateral side of a bottom cover of the disc accessing device.
- [c25] 26.The disc accessing device of claim 22, wherein when the disc is being ejected from the disc accessing device, the braking rod drives the braking component to touch the rim of the disc.
- [c26] 27.The disc accessing device of claim 22, wherein the structure portion further comprises at least one positioning pin utilized for positioning and installing the braking rod.

- [c27] 28.The disc accessing device of claim 21, wherein the braking component is made of sponge.
- [c28] 29.The disc accessing device of claim 21, wherein the disc braking device further comprises:
a tappet installed on the structure portion and utilized for driving the braking rod;
an elastic component installed on the structure portion, wherein one end of the elastic component hooks the tappet; and
an elastic unit installed on the structure portion and utilized for driving the braking rod to force the disc to stop rotating when the elastic unit is moving.
- [c29] 30.The disc accessing device of claim 29, wherein the tappet comprises a sliding slot.
- [c30] 31.The disc accessing device of claim 30, wherein the structure portion further comprises a first guiding peg and a second guiding peg located in the sliding slot and utilized for guiding the tappet to slide.
- [c31] 32.The disc accessing device of claim 29, wherein the disc braking device further comprises an covering component installed on the structure portion.
- [c32] 33.The disc accessing device of claim 32, wherein the structure portion further comprises a positioning hook

utilized for positioning and hooking the covering component.

[c33] 34.The disc accessing device of claim 32, wherein the structure portion further comprises a positioning slot utilized for positioning and installing the covering component.

[c34] 35.The disc accessing device of claim 29, wherein the elastic unit is a leaf spring.

[c35] 36.The disc accessing device of claim 29, wherein the elastic component is a spring made of metal or plastic materials.

[c36] 37.The disc accessing device of claim 29, wherein the tappet comprises a positioning hook and the elastic component hooks the positioning hook of the tappet.

[c37] 38.The disc accessing device of claim 29, wherein the structure portion further comprises a plurality of positioning pins utilized for positioning and installing the braking rod, the elastic component and the elastic unit.

[c38] 39.The disc accessing device of claim 29, wherein when the disc is being ejected from the disc accessing device, the elastic unit drives the braking rod to rotate, in order to make the braking component touch the rim of the

disc.